

$$E = R^{-6}/(R^{-6} + R_o^{-6})$$

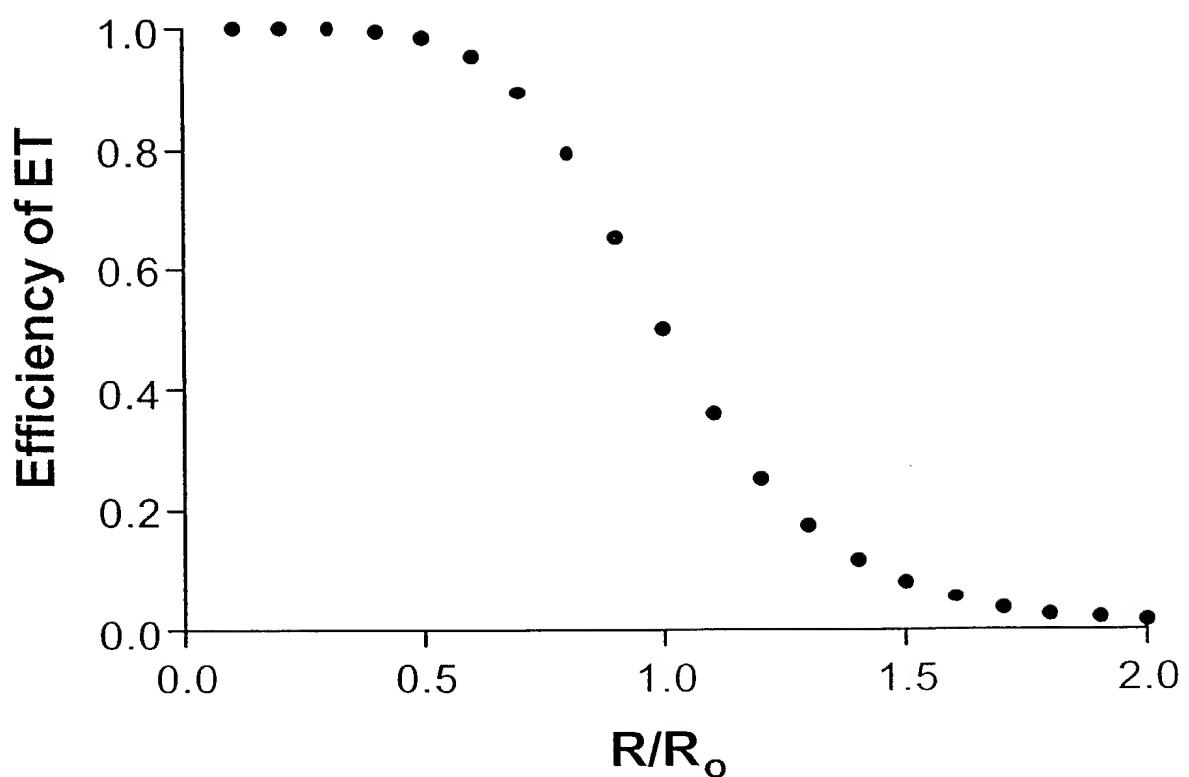


FIG. 1

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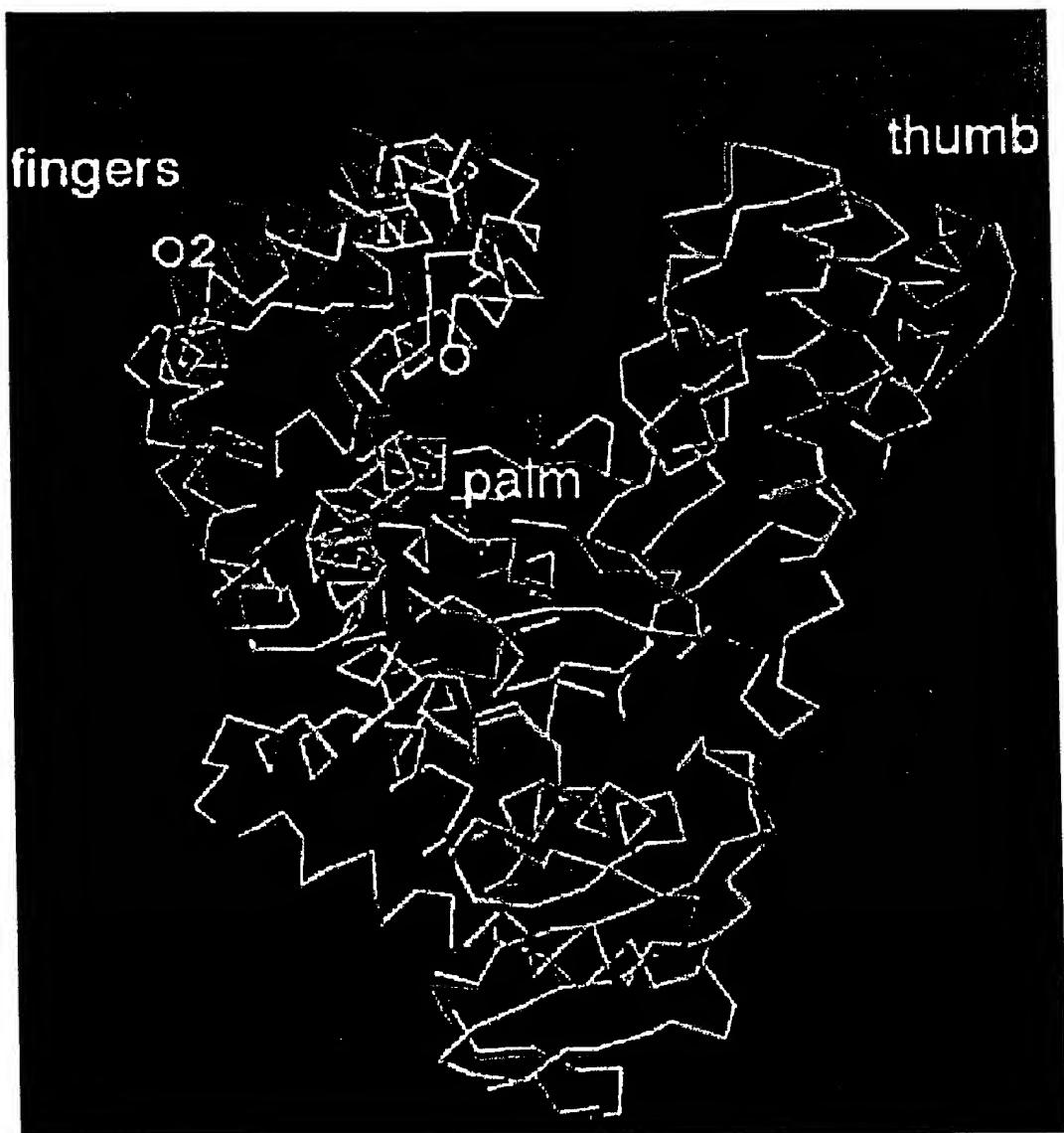


FIG. 2



FIG. 3A

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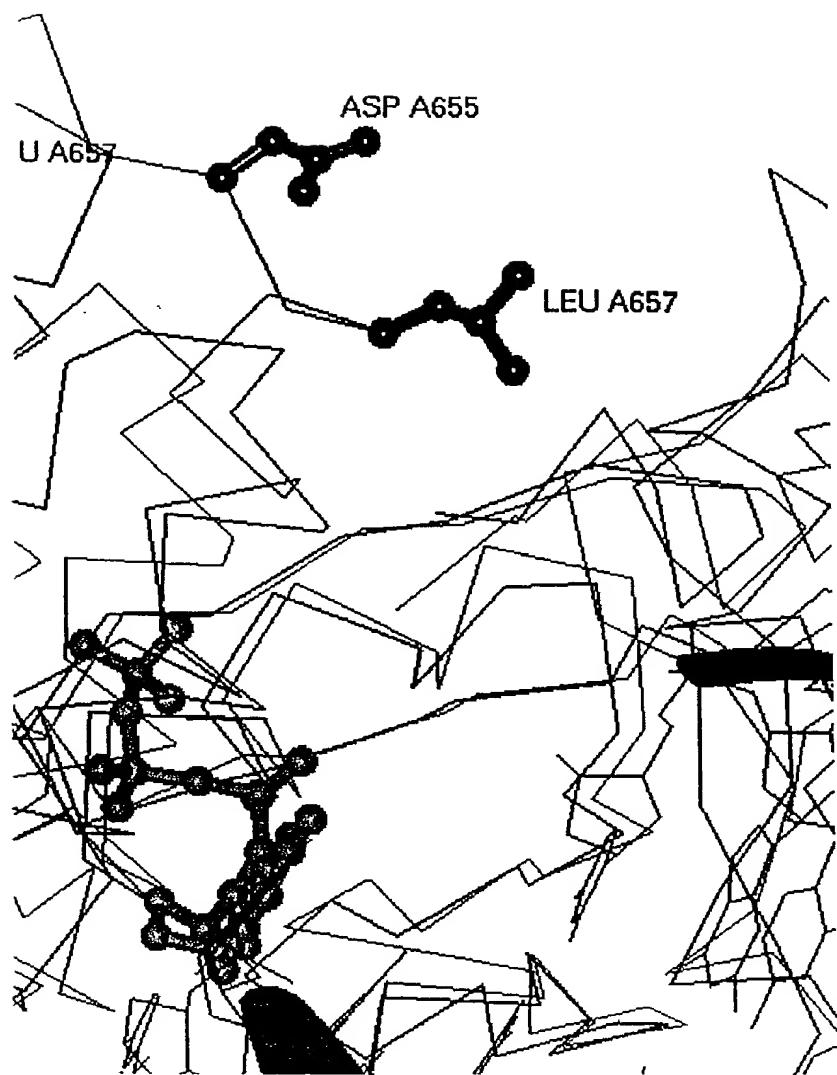


FIG. 3B

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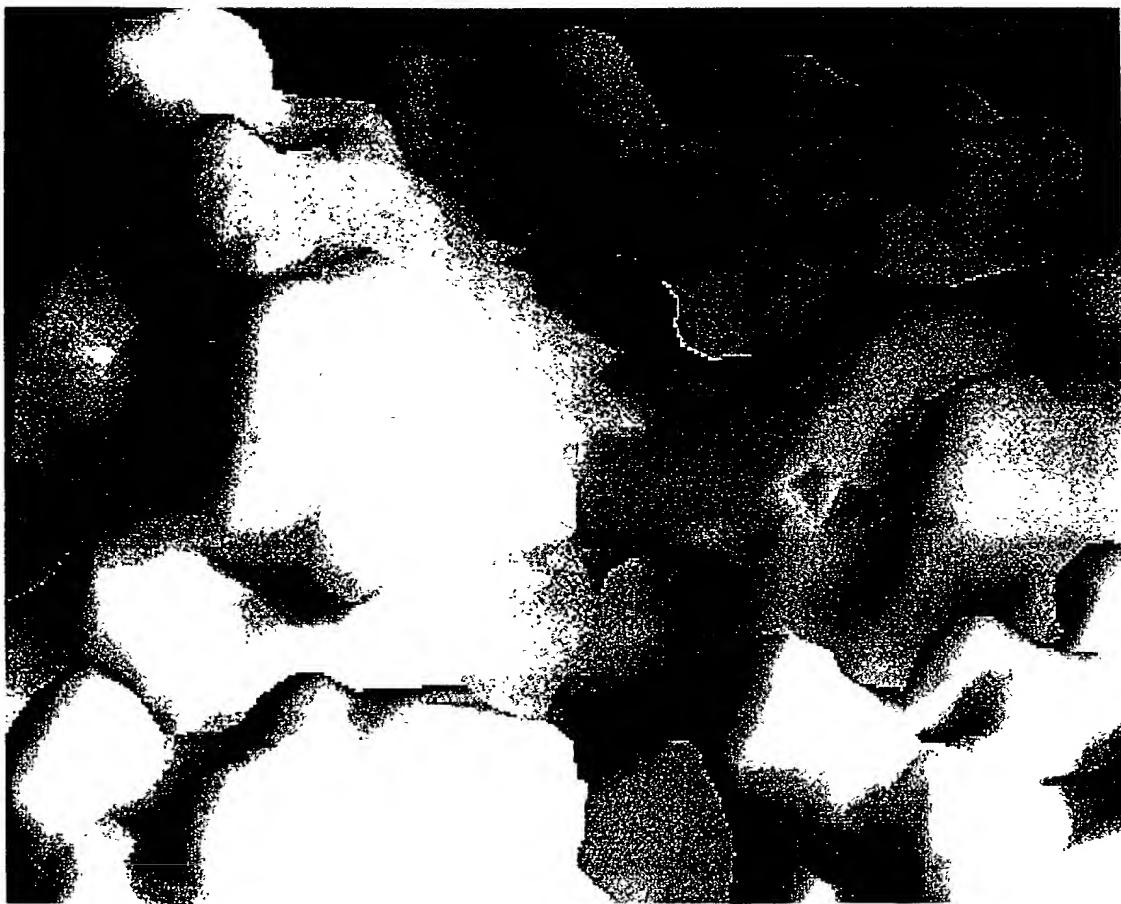


FIG. 3C

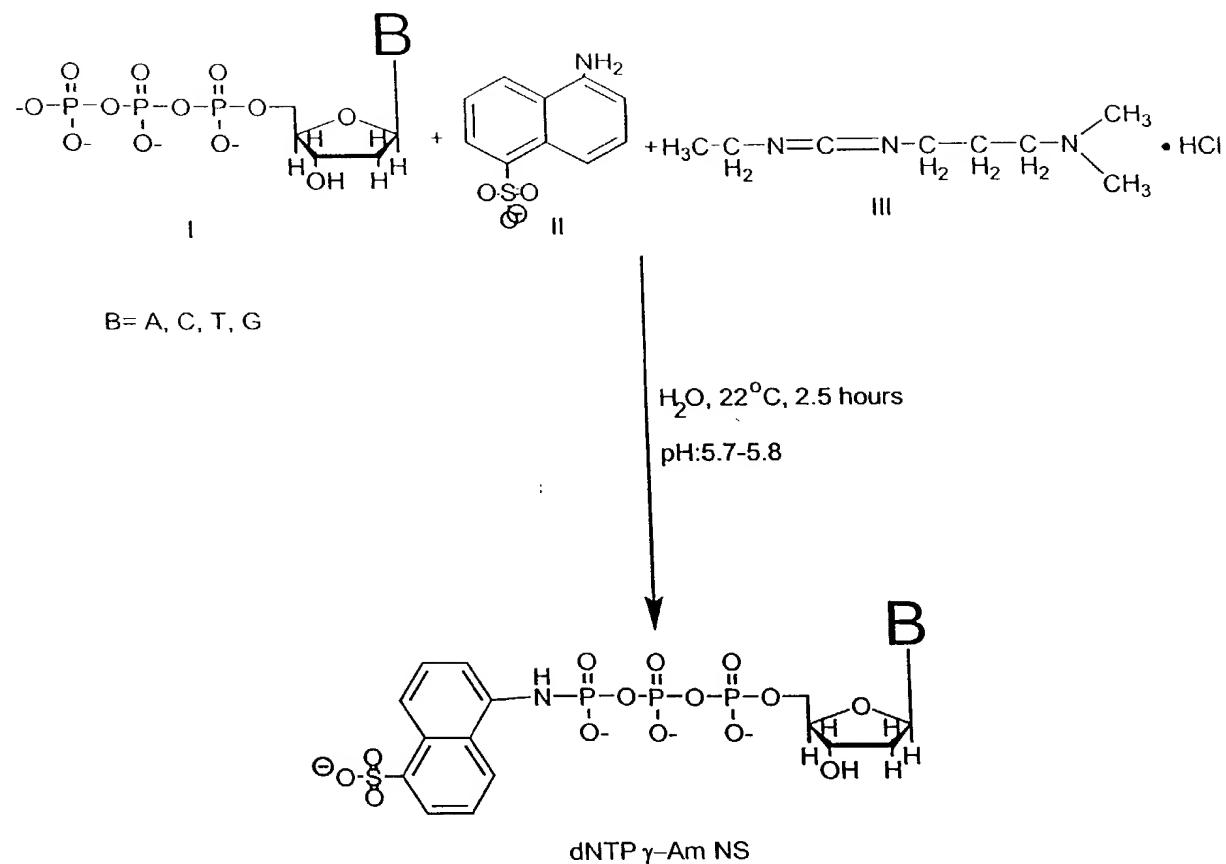


FIG. 4

Primer Strand:	
TOP 5'	GGT ACT AAG CGG CCG CAT G 3'
Template Strands:	
BOT-T 3'	CCA TGA TTC GCC GGC GTA CTC 5'
BOT-C 3'	CCA TGA TTC GCC GGC GTA CCC 5'
BOT-G 3'	CCA TGA TTC GCC GGC GTA CGC 5'
BOT-A 3'	CCA TGA TTC GCC GGC GTA CAC 5'
BOT-3T 3'	CCA TGA TTC GCC GGC GTA CTT TC 5'
BOT-Sau 3'	CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG
(5' to 3')

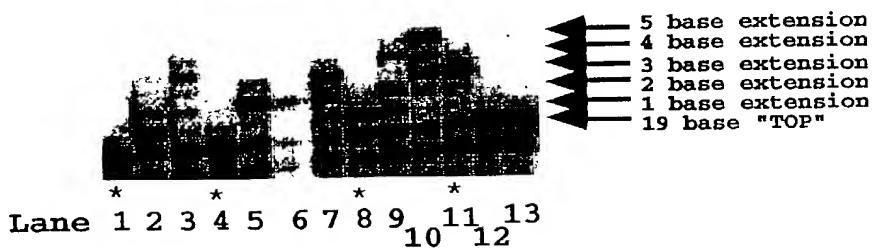


FIG. 5

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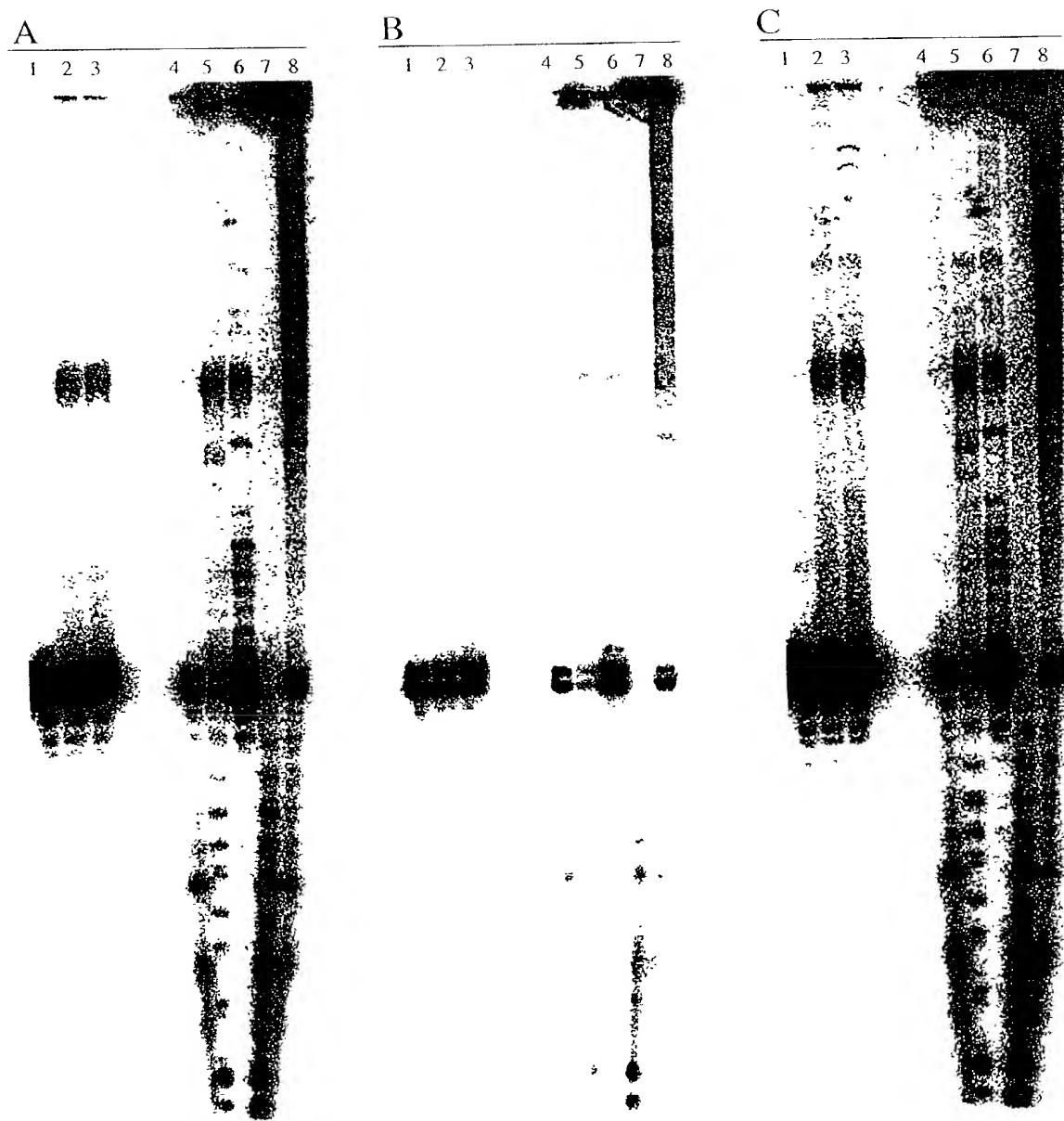


FIG. 6

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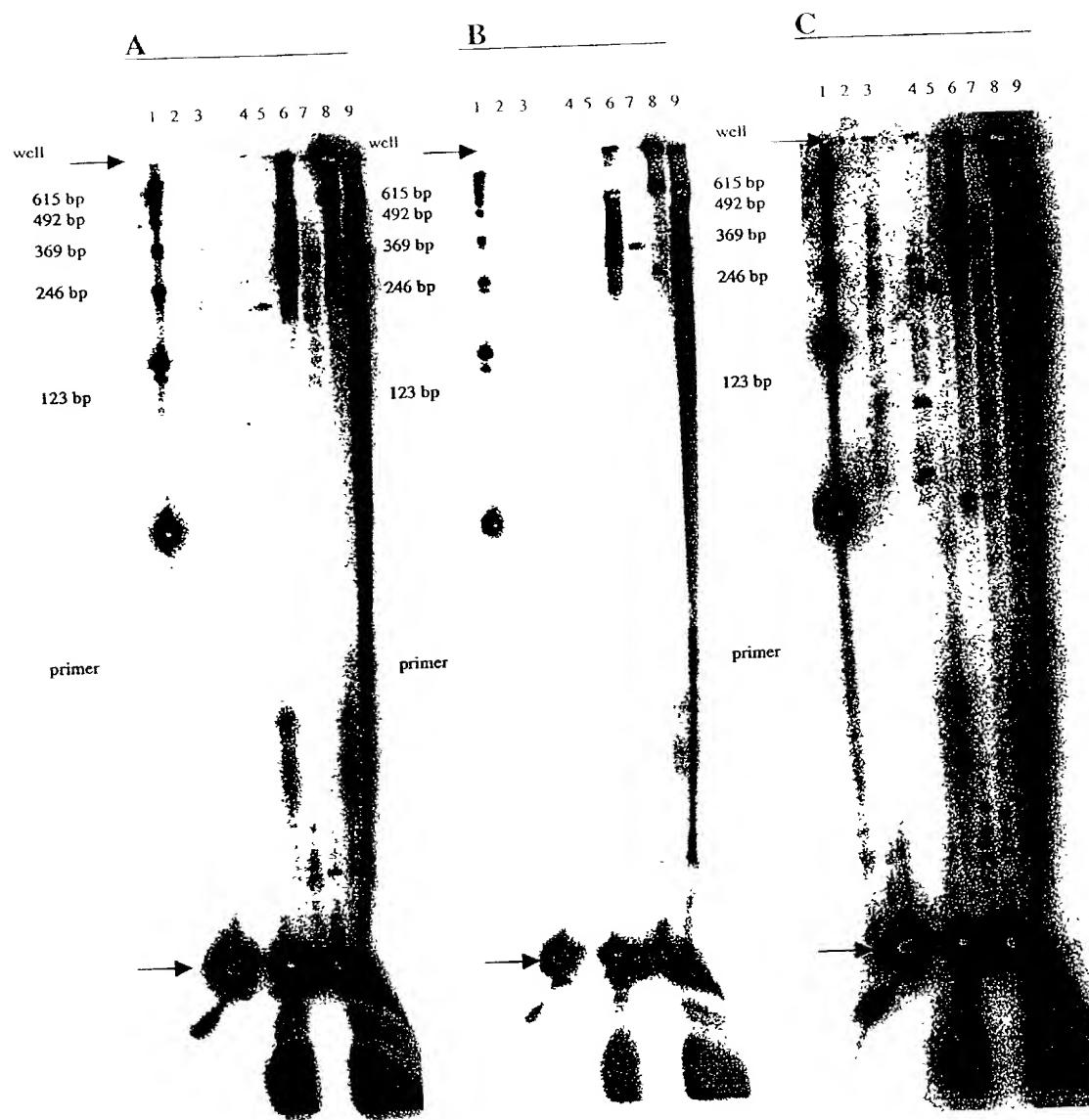


FIG. 7

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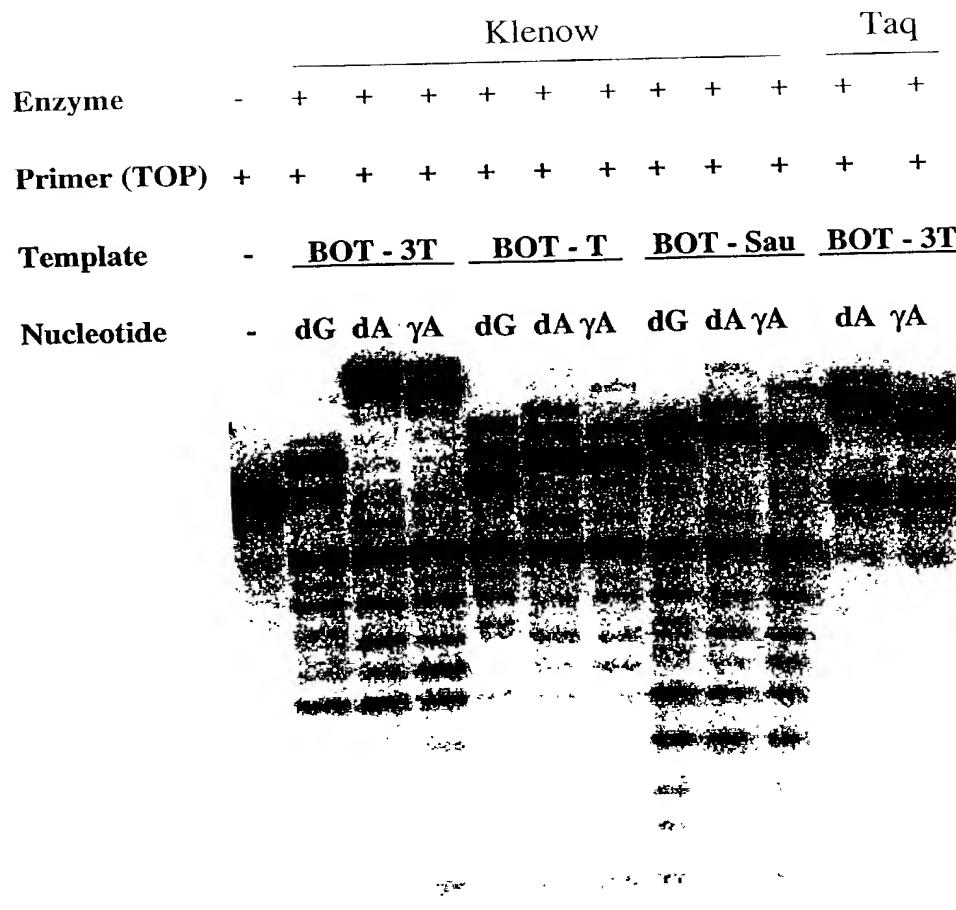


FIG. 8

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Pfu Primer Extension Assays

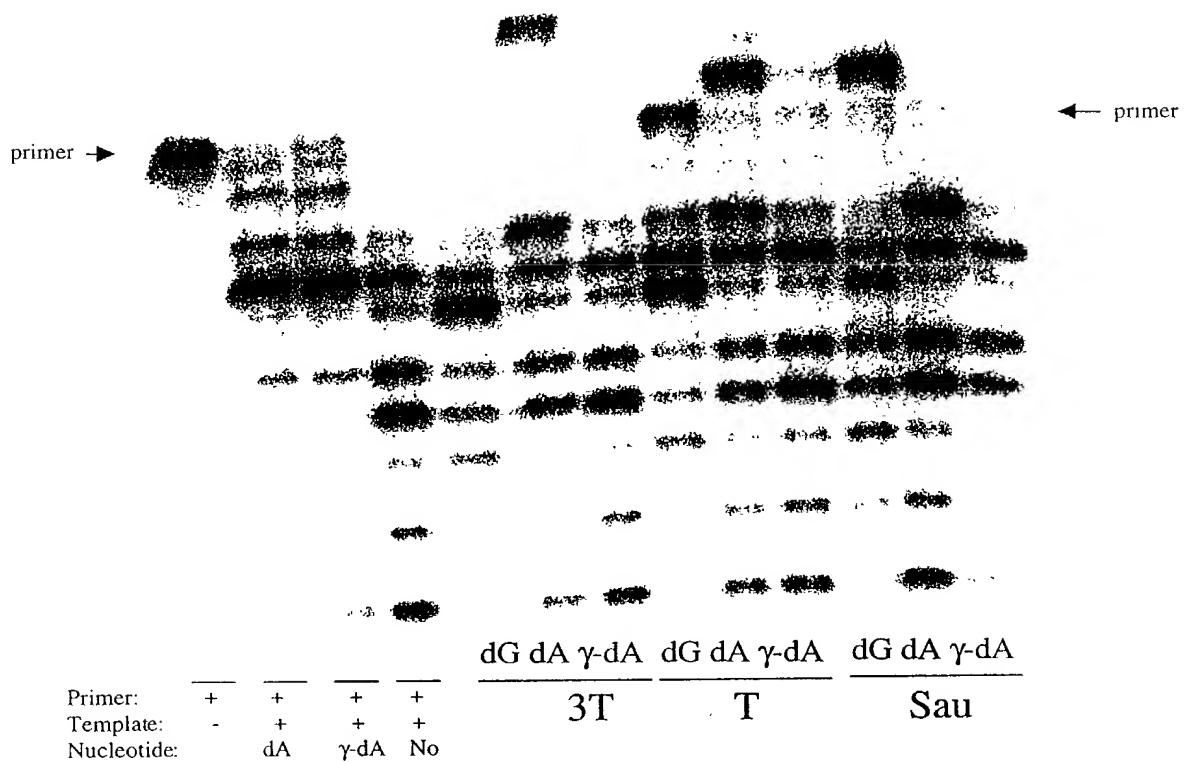


FIG. 9

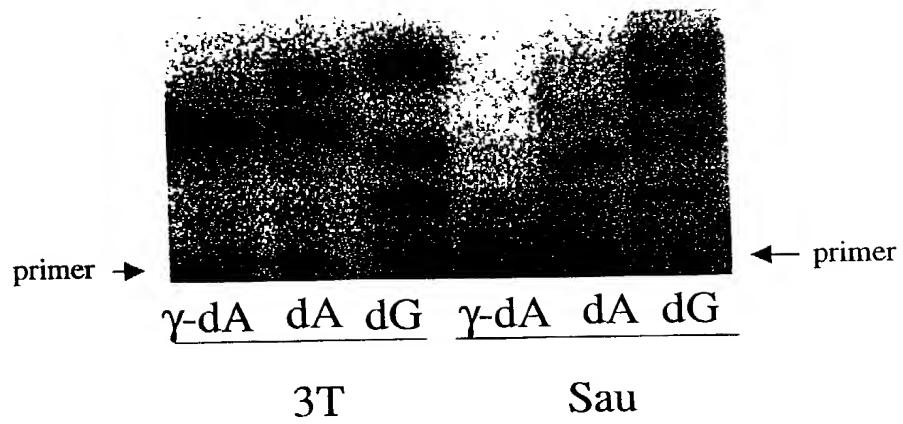


FIG. 10

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Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT-3T	3'	CCA	TGA	TTC	GCC	GGC	GTA	CTT	TC	5'
BOT-Sau	3'	CCA	TGA	TTC	GCC	GGC	GTA	CCT	AG	5'

Enzyme:	None	T7	T7	Seq	Seq	T7				Sequenase				Taq			
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Template:	-	+	-	+	BOT-3T			Sau	BOT-3T			Sau	BOT-3T				
Nucleotide:	-	dA	γ dA	dA	γ dA	dG	dA	(spill) γ dA	dG	dA	γ dAdG	dA	γ dAdG	dA	γ dA	dA	γ dA

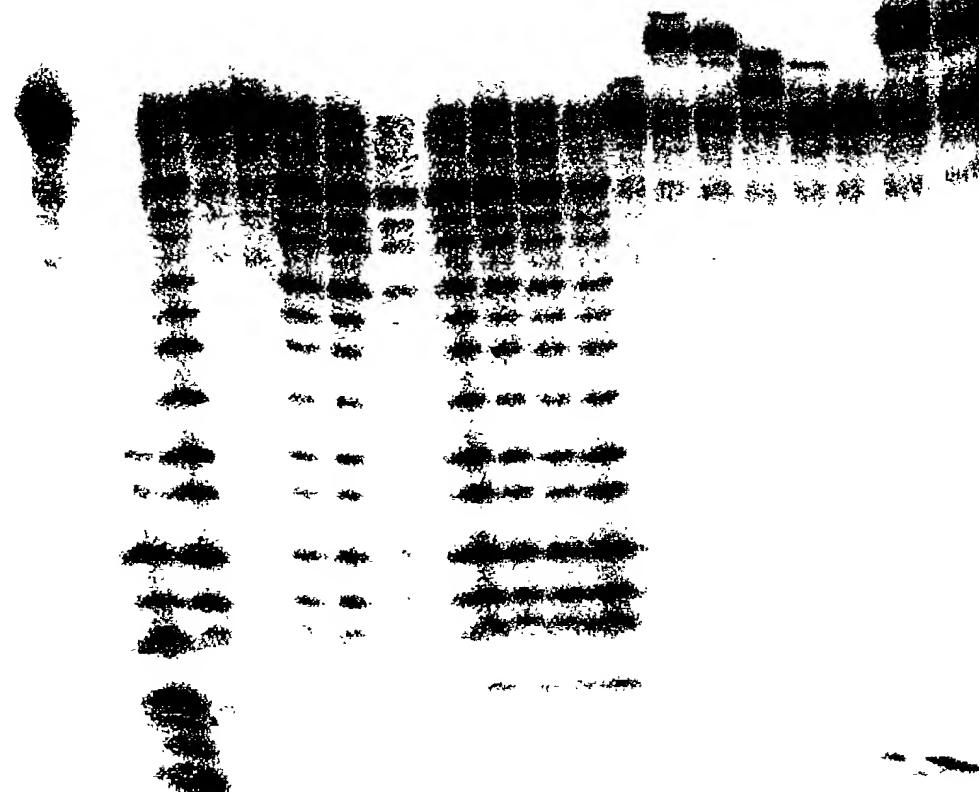
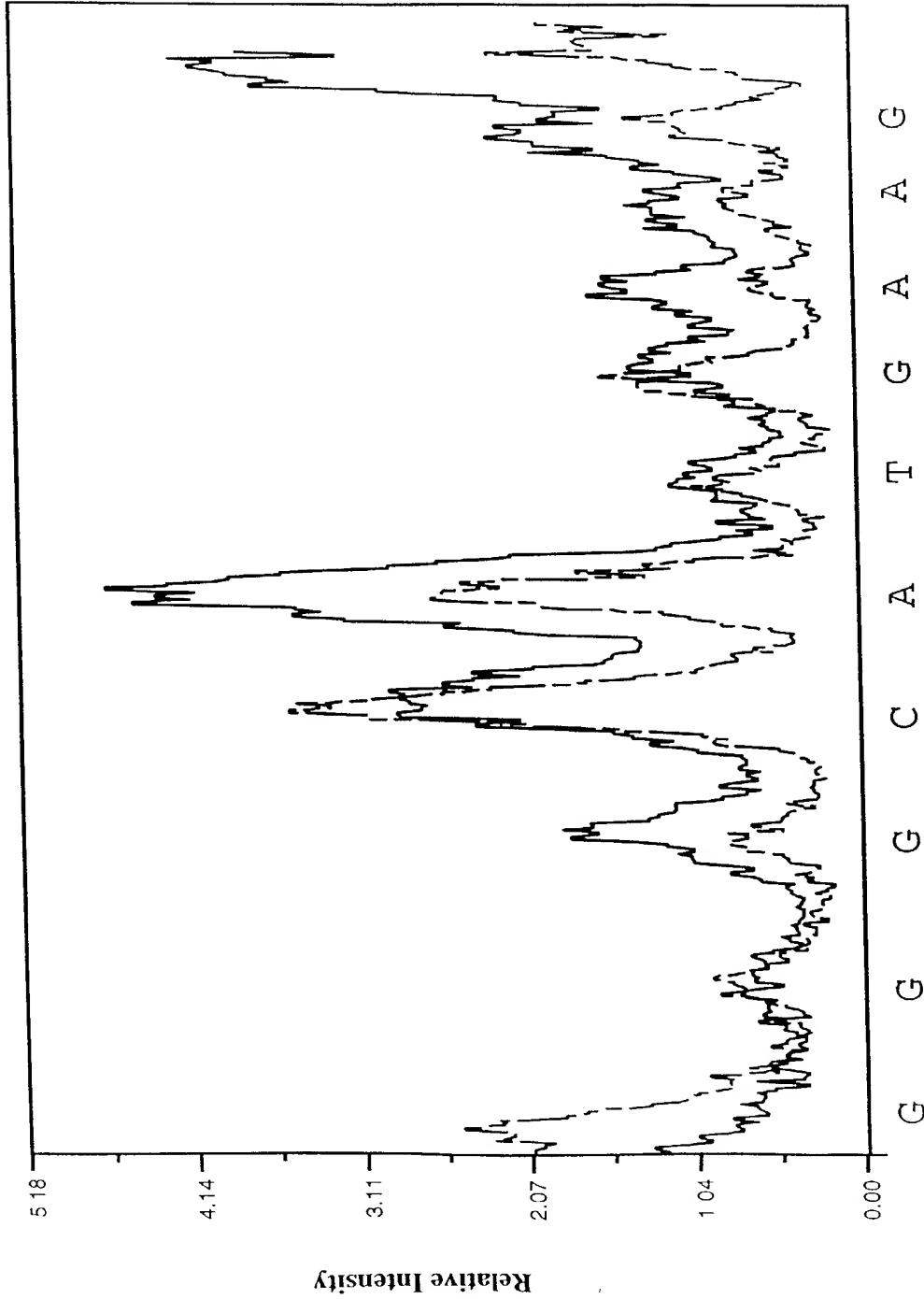


FIG. 11

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Signal Intensity and Reaction Kinetics Provide Information Concerning Base Identity.

FIG. 12